INDEX

RUBBER CHEMISTRY AND TECHNOLOGY VOLUME XXXIII, 1960

AUTHOR INDEX

	Page		Page
AKUTKIN, M. S., see Kovarskaya, B. M.		A. A. KOBOTKOV, M. I. MOSEVIT-	
ALBAM, M. A., AND A. P. PISARENKO. Mold-		SKII, AND I. YA. PODDUBNYI. Molecular	
ing microporous rubber footwear parts	1193	weight distribution of polyisoprene and	
ALLEN, P. W. Book, "Technique of Polymer Characterization"2nd issue, p. xiii		polybutadiene initiated with organo-	
Characterization"2nd issue, p. xiii		metale	669
C. L. M. BELL, AND E. G. COCKBAIN.		BURCHE, A. M., AND D. G. FLOM. Friction	
Polymerization of monomers in latex	825	and mechanical properties	105
ANDERSON, JR., H. R. Vulcanization of		Bugnova, E. G., see Bulko, G. N.	
SBR in thermal neutron field		BUIKO, G. N., ET AL. Bond strength between	1
ANDREWS, E. H. Stress waves and fracture		vulcanizates	556
surfaces	275	BUTYAGIN, P. YU., A. A. BERLIN, A. A.	
ARENZON, N. M., see Bulko, G. N.		KALMANSON, AND L. A. BLYUMENFELD.	
		Mechanochemical degradation in the	
BAKER, H. C., AND R. M. FODEN. SP rubber	810	glassy state	942
BARNHART, R. R., see Hunter, B. A.			
BARTENEY, G. M., AND Z. E. STYRAN. Fric-		CAMPBELL, E. M., see Hunter, B. A.	
tion, eroselinking and elastomer prop-		CERESA, R. J. Mechanochemical modifica-	-
erties.	1166	tion and reinforcement923	, 929
BAUMAN, R. G., and J. W. Bonn. Radiation		CHAI, YOAN-KUN, see Scheele, W. CHESNOKOVA, N. N., see Korotkov, A. A.	
damage, scission, antirad action	476	CHESNOROVA, N. N., See MOTOROV, A. A.	254
	483	CIPERRI, A., AND P. J. PLORY	204
antirad action	986	CLAMBOTH, R., see Kempermann, Th.	
BELL, C. L. M., see Allen, P. W.		COCKBAIN, E. G., see Allen, P. W. Collins, J. O., W. R. GOETHEL, AND J. O.	
Bres. M. D. and Colling R. L.		HEI. DOTG-catechol borate in rubber	
Bell, M. D., see Collins, R. L. Beltaeva, E. N., see Dogadkin, B. A. Bennett, B., see Siemers, F. A. Berlin, A. A., Z. V. Popova, and D. M.		compounds, determination	237
BENNETT R. see Sliemers F A		COLLINS, R. L., M. D. BELL, AND GERARD	-
BERLIN, A. A. Z. V. POPOVA, AND D. M.		Knaus. Unpaired electrons in carbon	
YANOVSKII. Stability of PVC as in-		black	993
fluenced by polymers with conjugated un-		CONANT, F. S., AND J. W. LISKA. Friction of	
anturation	1188	rubberlike materials	1218
, see Butyagin, P. Yu.		See Boor, L.	
BESTUL, A. B. Energy requirements for		Corish, P. J. Near infrared spectrum of	
shear degradation in concentrated poly-		polyisoprene for determination of cis and	
mer solutions	909	trans 1,4-isoprene units	975
BEVILACQUA, E. M. Polyisoprene network		CORRADINI, P., see Natta, G.	
and oxygen	51	CROCKER, G., see Weidner, C. L.	
Oxidation of earbon filled vul-		CUNNEEN, J. I. cis, trans Isomerization of	
canizates	60	polyisoprene	445
BLOKH, G. A. Vulcanization, study with			
EPR	1005	Davis, A. R., see Sullivan, F. A. V.	
	1010	DEDECKER, H. K. J., see Sliemers, F. A.	
, AND OTHERS. Migration and distri-		DENIDIONOVA, V. YA., see Blokh, G. A. DERYAGIN, B. V., S. K. ZHEREBKOV, AND A.	
bution of 8-35 in rubber	1015	DERYAGIN, B. V., S. K. ZHEREBKOV, AND A.	
BLYUMENFELD, L. A., see Butyagin, P. Yu.		M. MEDVEDEVA. Adhesion of rubber to	757
KROPACHEVA, AND K. V. NELSON. CIS		metal by Leikonat. Divirts, E. Ya., and A. S. Novikov. Redox	101
trans Isomerization of natural rubber	C	Division, E. 1A., AND A. S. NOVIEOV. REGION	790
with ethyl-aluminum dichloride	985	Donnoisus ove A V see Donnellin B A	****
BOOR, L., M. HANOK, F. S. CONANT, AND W.		Systems for thermal plasticizing of NBR Dobrowislova, A. V., see Dogadkin, B. A. Dogadkin, B. A. Bond strength	554
E. Scoville. Low temperature testing		, O. N. BELIATBEATA, A. B. DOBBOMY-	-
of rheology behavior	1114	SLOVA, AND M. S. FELDSHTEIN. N,N-	
Bonn, J. W., see Bauman, R. G.	-	Diethyl-2-benzothiazolylsulfenamide as	
BOROVITSKAYA, N. M. Dynamic modulus at			361
small amplitudes	272	accelerator BELYAEVA. Free radicals	
		in vulcanisation	199
BRADEN, M., AND A. N. GENT. Ozone re-		M. S. FELDSHTEIN, AND E. N. BE-	
action with rubber, rate of cut growth	1142	LYARVA. Binary accelerator systems	373
		LYARVA. Binary accelerator systems M. S. FELDERTEIN, AND D. M. PEVENER. Vulcanization system and	
BRESLER, S. E., ET AL. EPR during milling		PEVENER. Vulcanization system and	
, M. I. MOSEVITSKII, I. YA. POD-		bond strength	384
DUBNYI, AND N. N. CHESNOROVA. ISO-		, AND N. A. KLAUZEN. Use of infrared	000
prene polymerisation	689	in vulcanisation	208
, AND M. I. MOSEVITSEIL. Kinetics of	600	, AND V. A. SHERSHNEY. TMTD re-	401

INDEX

RUBBER CHEMISTRY AND TECHNOLOGY VOLUME XXXIII, 1960

AUTHOR INDEX

	Page		Page
AKUTKIN, M. S., see Kovarskaya, B. M.		A. A. Kobotkov, M. I. Mosevit-	
ALBAM, M. A., AND A. P. PISARENKO. Mold-		SKII, AND I. YA. PODDUBNYI. Molecular	
ing microporous rubber footwear parts	1193	weight distribution of polyisoprene and	
ALLEN, P. W. Book, "Technique of Polymer Characterization"2nd issue, p. xiii		polybutadiene initiated with organo-	
Characterization"2nd issue, p. xiii		metale	669
C. L. M. BELL, AND E. G. COCKBAIN.		BURCHE, A. M., AND D. G. FLOM. Friction	
Polymerization of monomers in latex	825	and mechanical properties	105
ANDERSON, JR., H. R. Vulcanization of		Bugnova, E. G., see Bulko, G. N.	
SBR in thermal neutron field		BUIKO, G. N., ET AL. Bond strength between	1
ANDREWS, E. H. Stress waves and fracture		vulcanizates	556
surfaces	275	BUTYAGIN, P. YU., A. A. BERLIN, A. A.	
ARENZON, N. M., see Bulko, G. N.		KALMANSON, AND L. A. BLYUMENFELD.	
		Mechanochemical degradation in the	
BAKER, H. C., AND R. M. FODEN. SP rubber	810	glassy state	942
BARNHART, R. R., see Hunter, B. A.			
BARTENEY, G. M., AND Z. E. STYRAN. Fric-		CAMPBELL, E. M., see Hunter, B. A.	
tion, eroselinking and elastomer prop-		CERESA, R. J. Mechanochemical modifica-	-
erties.	1166	tion and reinforcement923	, 929
BAUMAN, R. G., and J. W. Bonn. Radiation		CHAI, YOAN-KUN, see Scheele, W. CHESNOKOVA, N. N., see Korotkov, A. A.	
damage, scission, antirad action	476	CHESNOROVA, N. N., See MOTOROV, A. A.	254
	483	CIPERRI, A., AND P. J. PLORY	204
antirad action	986	CLAMBOTH, R., see Kempermann, Th.	
BELL, C. L. M., see Allen, P. W.		COCKBAIN, E. G., see Allen, P. W. Collins, J. O., W. R. GOETHEL, AND J. O.	
Bres. M. D. and Colling R. L.		HEI. DOTG-catechol borate in rubber	
Bell, M. D., see Collins, R. L. Beltaeva, E. N., see Dogadkin, B. A. Bennett, B., see Siemers, F. A. Berlin, A. A., Z. V. Popova, and D. M.		compounds, determination	237
BENNETT R. see Sliemers F A		COLLINS, R. L., M. D. BELL, AND GERARD	-
BERLIN, A. A. Z. V. POPOVA, AND D. M.		Knaus. Unpaired electrons in carbon	
YANOVSKII. Stability of PVC as in-		black	993
fluenced by polymers with conjugated un-		CONANT, F. S., AND J. W. LISKA. Friction of	
anturation	1188	rubberlike materials	1218
, see Butyagin, P. Yu.		See Boor, L.	
BESTUL, A. B. Energy requirements for		Corish, P. J. Near infrared spectrum of	
shear degradation in concentrated poly-		polyisoprene for determination of cis and	
mer solutions	909	trans 1,4-isoprene units	975
BEVILACQUA, E. M. Polyisoprene network		CORRADINI, P., see Natta, G.	
and oxygen	51	CROCKER, G., see Weidner, C. L.	
Oxidation of earbon filled vul-		CUNNEEN, J. I. cis, trans Isomerization of	
canizates	60	polyisoprene	445
BLOKH, G. A. Vulcanization, study with			
EPR	1005	Davis, A. R., see Sullivan, F. A. V.	
	1010	DEDECKER, H. K. J., see Sliemers, F. A.	
, AND OTHERS. Migration and distri-		DENIDIONOVA, V. YA., see Blokh, G. A. DERYAGIN, B. V., S. K. ZHEREBKOV, AND A.	
bution of 8-35 in rubber	1015	DERYAGIN, B. V., S. K. ZHEREBKOV, AND A.	
BLYUMENFELD, L. A., see Butyagin, P. Yu.		M. MEDVEDEVA. Adhesion of rubber to	757
KROPACHEVA, AND K. V. NELSON. CIS		metal by Leikonat. Divirts, E. Ya., and A. S. Novikov. Redox	101
trans Isomerization of natural rubber	0	Division, E. 1A., AND A. S. NOVIEOV. REGION	790
with ethyl-aluminum dichloride	985	Donnoisus ove A V see Donnellin B A	****
BOOR, L., M. HANOK, F. S. CONANT, AND W.		Systems for thermal plasticizing of NBR Dobrowislova, A. V., see Dogadkin, B. A. Dogadkin, B. A. Bond strength	554
E. Scoville. Low temperature testing		, O. N. BELIATBEATA, A. B. DOBBOMY-	-
of rheology behavior	1114	SLOVA, AND M. S. FELDSHTEIN. N,N-	
Bonn, J. W., see Bauman, R. G.	-	Diethyl-2-benzothiazolylsulfenamide as	
BOROVITSKAYA, N. M. Dynamic modulus at			361
small amplitudes	272	accelerator BELYAEVA. Free radicals	
		in vulcanisation	199
BRADEN, M., AND A. N. GENT. Ozone re-		M. S. FELDSHTEIN, AND E. N. BE-	
action with rubber, rate of cut growth	1142	LYARVA. Binary accelerator systems	373
		LYARVA. Binary accelerator systems M. S. FELDERTEIN, AND D. M. PEVENER. Vulcanization system and	
BRESLER, S. E., ET AL. EPR during milling		PEVENER. Vulcanization system and	
, M. I. MOSEVITSKII, I. YA. POD-		bond strength	384
DUBNYI, AND N. N. CHESNOROVA. ISO-		, AND N. A. KLAUZEN. Use of infrared	000
prene polymerisation	689	in vulcanisation	208
, AND M. I. MOSEVITSEIL. Kinetics of	600	, AND V. A. SHERSHNEY. TMTD re-	401

	Page		Page
in TMTD vulcanization. Metal oxides	412	Kaborn, V. A., see Slonimskil, G. L. Kasaykina, N. G. Isoprene unit determina-	100
, AND V. A. SHERSHNEY, TMTD and	De 1900	tion in rubber	587
TMTM reaction with rubber. V. A. Shershney, and A. V. Do- BROMIBLOVA. Reversion in TMTD vul-	398	KARBEROV, E. N., see Brealer, S. E., et al. KEMPZRMASH, TH., AND R. CLAMBOTH.	
BROMISLOVA. Reversion in TMTD vul-		Damoing versus prestress. KIMMER, W., AND E. O. SCHMALS. Infrared	282
canization. , V. E. Gul, and N. A. Monozova. Electric charges formed during deforma-	1068	analysis of polybutadiene	639
Electric charges formed during deforma-	970	analysis of polybutadiene	
- AND V. N. KULEZNEV. Gel forma-		TETD radical and ionic reactions	1062
tion in mastication and vulcanizate	940	KLINE, R. H., see Juve, A. E.	
strength, see Feldshtein, M. S.		KOLOMYTSEVA, A. I., see Bulko, G. N.	
DOLGOFLOSK, B. A., see Boldyreva, I. I., Fo-		KONTTOVSKAYA, S. P., see Votinov, M. P.	
DRAKELEY, T. J. Book, "Annual Report on		KLINE, R. H., see Juve, A. E. KOBAYASHI, G., see Iwakuri, I. KOLOMYTSWA, A. I., see Bulko, G. N. KONYTOVSKAYA, S. P., see Votinov, M. P. KOBOTKOV, A. A., N. N. CHESSOROVA, AND L. B. TEUCHMANOVA. ISoprene polymerization with butyllithium.	440
XXIII. 1959		See Rakova, G. V.	610
Dolaorlosk, B. A., see Boldyreva, I. I., Foshung, Wang, and Kropachev, V. A. Dankeley, T. J. Book, "Annual Report on the Progress of Rubber Technology", Vol. XXIII, 1959	423	See Rakova, G. V. Kovarskaya, B. M., J. M. Golubenkova,	
, J. SCANLON, AND W. F. WATSON.	-	SKAYA. Block polymers.	964
Stress relaxation during photooxidation.	433	KRAUS, GERARD, see Collins, R. L.	
ECHTE, ELIZABETH, W. SCHEELS, AND S. SONNENBERG. Vulcanization with S in		N. I. NIKOLAEV. Complex formation in	-
SONNENBERG. Vulcanization with S in	1051	KROPACHEVA. E. N., see Boldvreya. I. I.	636
SONNENBERG, Vulcanization with S in absence of accelerators. Evans, I. Rolling resistance. Ettingron, I. I., see Feldshtein, M. S.	302	KROTOVA, N. A., see Morozova, L. P.	
Eltington, I. I., see Feldshtein, M. S. Erusalimskif, B. L., see Fo-shung, Wang		pendence of mechanical and stress-optical	
Parameter M & I I Plantage con D		behavior of elastomers	763
FELDSHTEIN, M. S., I. I. ElTINGTON, AND B. A. DOGADKIN. MBT derivatives as accelerators.		KOVARSKAYA, B. M., J. M. GOLUBENKOVA, M. S. ASUTKIN, AND I. I. LEVANTOV- SKAYA. Block polymers. KRAUS, GERARD, see Collins, R. L. KROPACHEY, V. A., B. A. DOLGOPLOSE, AND N. I. NIKOLASY. Coinplex formation in polymerization of butadiene. KROPACHEYA, E. N., see Boldyreva, I. I. KROTOVA, N. A., see Morosova, L. P. KRUSE, J., AND T. TIMM. Temperature de- pendence of mechanical and stress-optical behavior of elastomers. KUHN, W., E. PETERLI, AND J. MAJER. Freezing point depression of vulcanisates (gels)	
Francisty M S are Dorodkin B A	357	KUKTENKO, I. L. see Blokh, G. A.	245
FLOM, D. G., see Bueche, A. M.		Kuktenko, I. I., see Blokh, G. A. Kulbenev, V. N., see Dogadkin, B. A. Kunts, I., and A. Gerser. Butyllithium	
FOREN, R. M., see Baker, H. C.	254	polymerization of isoprene	628
FOMINA, L. P., see Klebanskil, A. L.		polymerization of isoprene	
PELDBUTSIN, M. S., see Dogadkin, B. A. FLOM, D. G., see Bueche, A. M. FLOM, P. J. Stress strain isotherm. FODEN, R. M., see Baker, H. C. FOMINA, L. P., see Klebanskii, A. L. FORMAN, L. E., see Stearns, R. S. FO-SHUNG, WANG, B. A. DOLGOPLOSK, AND B. L. ERUBALIMSKII. Polymerisation of			
B. L. ERUSALIMSKII. Polymerisation of isoprene by organomagnesium com-		LANING, S. H., M. P. WAGNER, AND J. W. SELLERS. Determination of ZnO by	
pounds	971	x-ray diffraction	890
pounds. Praga, D. W. Polyisoprene, absence of 3, 4- structure in NR by infrared spectrum FURUDA, H., see Tsurugi, J.	982	LANING, S. H., M. P. WAGNER, AND J. W. SELLERS. Determination of ZnO by x-ray diffraction. LAYER, R. W. Free radical cracking of stressed rubber. LERNER, M. E. Book, "Bibliography of Rubber Literature" 2nd issue, p. zii LEVANTOVEKAYA, I. L. see KOVARSKAYA, B. M.	78
		LERNER, M. E. Book, "Bibliography of Rubber Literature" 2nd issue, p. vii	
GAYLORD, N., AND H. MARK. Book (Polymer Reviews, Vol. 2) "Linear and Stereoregular Polymer" 2nd issue, p. xii German, S. D. Ioniring radiation on elasto-		Rubber Literature". 2nd issue, p. xii Levantovskava, I. I., see Kovarskeya, B. M. Lezansev, N. N., T. S. Nikerima, And A. S. Kuzminskil. Action of ionizing radia-	
mer Reviews, Vol. 2) "Linear and Stereo- regular Polymers"		KUZMINSKII. Action of ionizing radia-	
GERMAN, S. D. Ionizing radiation on elasto-	1375	LIPKINA, B. G., see Restsova, E. V. LIPKINA, B. W., see Conant, F. S. LITTLE, J. R., see Tawney, P. O. LUDWIG, R. Sulfur diffusion in vulcanisation	796
GÉNIN, G., AND B. MORISSON. Encyclopedie de l'Industrie du Caoutchouc	*10.44	LISKA, J. W., see Conant, F. S.	
de l'Industrie du Caoutehoue		LITTLE, J. R., see Tawney, P. O. Lupwig, R. Sulfur diffusion in vulcanization	1029
GENT, A. N., see Braden, M. GERBER, A., see Kuntz, I. GOLDING, B. Book, Polymers and Resins.		LURUMERATA, A. I., see Inyusia	
		McDonsl., E. T., see Shelton, R.	
Carrante I M 2nd issue, p. xiii		MADORSKY, I., see Wood, L. A.	
GOLUBENKOVA, L. M., see Kovarskaya, B. M. GOUGH, V. E. Rubber friction. GREENWOOD, J. A., AND D. TABOR. Friction of bard sliders on rubber	158	MAJER, J., see Kuhn, W.	
GREENWOOD, J. A., AND D. TABOR. Friction of hard sliders on rubber.	129	R. D. STIEBLER. Measurement of aging	
of hard sliders on rubber		by decrease in elongation	502 591
HANDLER, F., see Kainradi, P.		McDonel, E. T., see Shelton, R. Madonsky, I., see Wood, L. A. Magnusson, A. B., see Smith, T. L. Majer, J., see Kuhn, W. Mandel, J., F. L. Roth, M. N. Sterl, and R. D. Stierliez. Messurement of aging by decrease in elongation Mano, E. B. Identification of polyisoprene. Mark, H., see Gaylord, N. Manon, S. H., and N. Nakajima. Rubber bensee system thermodynamics.	
HANOK, M., see Boor, L.		Manon, S. H., and N. Nakajina. Rubber benzene system thermodynamics	798
HEILIGMANN, R. G., see Sliemers, F. A.		benzene system thermodynamics. MEDVEDEVA, A. M., see Deryagia, B. V. MELVILLE, H. Book, "Big Molecules"	
HORI, T., see Iwakuri, I.			
HUNTER, B. A., A. C. NAWAKOWSKI, R. R.		MERCURIO, A., AND A. V. TOROLSKY. Stress relaxation.	72
HANDLER, P., see Kainradl, P. HANDK, M., see Boor, L. HANDR, E. B., see Hunter, B. A. HEILIGHANN, R. G., see Sliemers, F. A. HILLMER, KH., see Scheele, W. HORI, T., see Iwakuri, I. HUNTER, B. A., A. C. NAWAKOWSKI, R. R. BARNHART, E. M. CAMPBELL, AND E. B. HANSEN. Stability of SBR.	510	Mikhailov, G. P., and B. I. Sazhin. Crystallization of polymers and dielectric loss	Section 1
IWARURA, I., T. HORI, K. SUBURI, T. WARA-		tallization of polymers and dielectric loss Mikhalen, M. F. Power and thrust force of	741
SUGI, AND G. KOBAYASHI. Synthesis of polysulfides with polar linkages	410	mill rolls	868
	416	MIKLUKHIN, C. P., see Blokh, G. A.	
JUVE, A. E., J. R. BEATTY, AND R. H. KLINE. The Rotomill, a continuous mill	98	Moore, C. G. Crosslinking in TMTD vul- canization.	394
	-	eanization.	-
KAINRADL, P., AND F. HANDLER. Tear re- sistance.	1438	p. 11 (1957)	1
KALMANSON, A. E., see Butyagin, P. Yu.		Morisson, B., see Génin, G.	

AUTHOR INDEX

	Page		Page
Monozova, L. P., and N. A. Krotova. Nature of adhesion between high mo- lecular weight compounds.		SCOTT, J. R., AND A. L. SODEN. Microhard-	
Nature of adhesion between high mo-	1180	ness testing. Scovills, W. E., see Boor, L. Sellers, J. W., see Laning, S. H. Schmalf, E. O., see Kimmer, W. Shelfon, R., and E. T. McDongl. Radical	876
, AND B. A. KROTOVA. Electrical and	1100	SELLERS, J. W., see Laning, S. H.	
diffusion processes in polymer to polymer adhesion. Morozova, N. A., see Dogadkin, B. A. Morron, M. Book, "Introduction" to Rubber Technology 2nd issue, p. xi Mullars, L. Reinforcement by fillers and tear resistance.	240	SCHMALE, E. O., see Kimmer, W. SHELTON, R., AND E. T. McDONEL. Radical	
Monosova, N. A., see Dogadkin, B. A.	240	SHELTON, R., AND E. T. McDonne. Radical and polar mechanisms in vulcanisation. SHRESHINEV, V. A., see Dogadkin, B. A. SHUDKOV, S. N., see Bresler, S. E., et al. SLIEMERS, F. A., B. BENNETT, P. B. STICK-NEY, R. G. HEILIGMANN, AND H. K. J. DEDECKER. Stability of SBR latex. SLONIMSKII, G. L., V. A. KARGIN, AND E. V. RESTSOVA. Mechanochemical modification of raw and cured rubber. Theory of bond strength. AND G. P. DRUGOVA. Mechanochemical modification of raw and cured rubber. AND G. P. DRUGOVA.	342
Monron, M. Book, "Introduction" to		SHRBSHNEY, V. A., see Dogadkin, B. A.	
Rubber Technology 2nd issue, p. x	De West	SHURKOV, S. N., see Bresler, S. E., et al.	
MULLINS, L. Reinforcement by fillers and tear resistance	315	NEV. R. G. HEILIGMANN, AND H. K. J.	
D. T. Tanana Dediction com		DEDECKER. Stability of SBR latex	535
inking. AND W. F. WATSON. Mastication. IX. Shear dependence of hot mastica- tion.	1072	SLONIMSKII, G. L., V. A. KARGIN, AND E. V.	
IV Shear dependence of hot mastica-		tion of raw and cured rubber	959
tion	91	- Theory of bond strength	306
NAKAJIMA, N., see Maron, S. H. NATTA, G., AND P. CORRADINI. Structure and crystallisation of polymers70 NAWAKOWSKI, A. C., see Hunter, B. A. NELSON, K. V., see Boldyreva, I. I. NIKITIMA, T. S., see Leahnev, N. N. NIKOLAEV, N. I., see Kropachev, V. A. NIKULINA, R. V., see Blokh, G. A. NOVIKOV, A. S., see Diverts, E. Ya. NOVIKOVA, E. N. Sorption of antioxidant from solution.		, AND G. P. DRUGOVA. Mechano-	
NATTA, G., AND P. COBRADINI. Structure		chemical effects on bond strength	953
and erystallization of polymers70	3, 732	see Tsyksik AND E. V. REZTSOVA. Mechano- chemical blending.	
NAWAROWSKI, A. C., see Hunter, B. A.		chemical blending	457
NIKITINA, T. S., see Leshney, N. N.		Sacres T. L. AND A. R. Magazzanov Polys	946
NIKOLAEV, N. I., see Kropachev, V. A.		see Restsova, E. V. Smith, T. L., and A. B. Magnusson. Polyurethan elastomers, swelling and me-	
Nikulina, R. V., see Blokh, G. A.		chanical properties	1092
Novikova, E. N. Sorption of antioxidant	13	SODEN, A. L., see Scott, J. R.	
from solution	528	STREE, M. N., see Mandel, J.	
OERRIMENKO, I. S. Vulcanization at high		uretram eiastomers, sweiling and me- chanical properties. Soden, A. L., see Scott, J. R. Sonnennen, S., see Echte, E. Stell, M. N., see Mandel, J. Steller, M. N., see Mandel, J. Steller, S., and L. E. Forman. Poly- merization of isoprene with lithium and lithium compounds. Stickney, P. B., see Sliemers, F. A.	
		merization of isoprene with lithium and	595
OSSEFORT, Z. T. Accelerator residues and		lithium compounds. STICKNET, P. B., see Sliemers, F. A. STIERLER, R. D., see Mandel, J. STYRAN, Y. E., see Bartenev, G. M. SUBBOTIN, S. A., see Votinov, M. P. SULLIVAN, F. A. V., AND A. R. DAVIS. Antioonants acreening test. SURUKI, K., see Iwakuri, I.	090
age resistance	490	STIEHLER, R. D., see Mandel, J.	
PAROMOVA, E. A., see Bulko, G. N.		STYRAN, Y. E., see Bartenev, G. M.	
PAROMOVA, E. A., see Bulko, G. N. PAULSON, R. A., see Wood, L. A. PAYNE, A. R., and J. R. Scott. Book, "Engineering Design with Rubber"		SUBBOTIN, S. A., see Votinov, M. P.	
PAYNE, A. R., AND J. R. SCOTT. Book, "En-		Antiogonanta acreeming test	899
gineering Design with Rubber"		SUZUKI, K., see Iwakuri, I.	
PEDERSON, H. L. Vulcanisation with 8-35	181	Tanan D Printles and hauteneric less	142
PETERLI, E., see Kuhn, W.		, see Greenwood, J. A.	
PINAMENKO, A. P., see Albam, M. A.		TAWNEY, P. O., J. R. LITTLE, AND P. VIOHL.	
POPOVA, Z. V., see Berlin, A. A.		TAWNEY, P. O., J. R. LITTLE, AND P. VIOHL. Vulcanisation of butyl with phenol formal delayed desirestives.	229
PRUBHANSKAYA, N. A., see Bulko, G. N		Tim. T., see Kruse, J.	
PEDERSON, H. L. Vulcanisation with 8-35 PETERLI, E., see Kuhn, W. PEVENER, D. M., see Dogadkin, B. A. PIBARENKO, A. P., see Albam, M. A. POPOVA, Z. V., see Berlin, A. A. PRUEHANSKAYA, N. A., see Bulko, G. N. PREHEBYLSKII, M. I., see Blokh, G. A.		Vulcanization of butyl with phenol for- maldehyde derivatives. TIM, T., see Kruse, J. TOBOLEKT, A. V., see Mercurio, A. AND C. E. Roogne. Anionic poly- merisation of isoprene. 652,	
RAKOVA, G. V., AND KOROTKOV, A. A. Butadiene-isoprene polymerization with	200	AND C. E. Rogens. Anionie poly-	655
Butadiene-isoprene polymerisation with	623	AND C. E. Roderss. Anionic polymerisation of isoprene. 652, — Book, "Properties and Structure of Polymers". 5th issue, p. xxiii TOMASHEVARII, E. E., see Bresler, S. E., et al. TOURASHT, HE., see Scheele, W. TRICK, G. S. Crystallisation of cis-polybuta-diese.	CHARLE
butyllithium. REDETSKY, W., see Scheele, W. REASHEVA, A. F., see Blokh, G. A. REANIKOWSKII, M. M. Static and dynamic bond strength determination. RESTSOVA, E. V., B. G. LIPKINA, AND G. L. SLONIMSKII. Mechanochemical effects in polymers. Initiators, inhibitors, and radicals. — see Slonimskii. G. L.	020	Polymers"5th issue, p. xxiii	
REKASHEVA, A. F., see Blokh, G. A.		TOMASHEVARII, E. E., see Bresler, S. E., et al.	
REENIKOWSKII, M. M. Static and dynamic	581	TRICK, G. S. Crystallization of cis-polybuta-	
RESTROVA, E. V., B. G. LIPKINA, AND G. L.	991	diene	699
SLONIMSKII. Mechanochemical effects		TRUCKMANOVA, L. B., see Koratkov, A. A. TSTDZIK, M. A., A. I. LUKOMSKAYA, AND G. L. SLONIMSKII. Bond strength between	
in polymers. Initiators, inhibitors, and	946	L. SLONIMSKII. Bond strength between	
	940	rubber and cord	42
, see Sionimskii, G. L. RITTER, F. J. Rubber and thiol acids and low temperature properties. ROGERS, C. E., see Tobolsky, A. V. ROTH, F. L., see Mandel, J.		I SURUGI, J., AND H. FUKUDA. Chemistry of	917
low temperature properties	1	vulcanization. 211, TUMANOVA, A. J., see Bulko, G. N. TURNER, D. T., see Mullins, L.	217
ROTH F. L. see Mandel J.		TURNER, D. T., see Mullins, L.	
O D. D. Delate 1		Violit. P. see Tawney P. O.	
Sabey, B. E. Friction between conical and spherical sliders. Saminskif, E. M., see Bresler, S. E., et al. Samoletova, V. V., see Votimov, M. P. Saunderova, J. H. Polymer structure and	119	VIOHL, P., see Tawney, P. O. VOTINOY, M. P., S. A. SCHBOTIN, V. V SAMOLETOVA, S. P. KONTTOVSKAYA, AND E. V. KUVSHINSKII. Crystallizability of SKI rubber on adiabatic stretching.	
SAMINSKII, E. M., see Bresler, S. E., et al.	110	SAMOLETOVA, S. P. KONTTOVSKAYA, AND	
SAMOLETOVA, V. V., see Votimov, M. P.		E. V. KUVSHINSKII. Crystallizability of	000
SAUNDERS, J. H. Polymer structure and		SKI rubber on adiabatic stretching VOYUTSKII, S. S. Adhesion, diffusion theory	966
foams	1201	of	748
SCANLON, J., AND W. F. WATSON. Statistical		WAGNER, M. P., see Laning, S. H.	
treatment of rubber structure 1259,	1293	WARASUGI, T., see Iwakuri, I.	
W. F.		WAKASUGI, T., see Iwakuri, I. WATSON, W. F., AND J. SCANLON. Molecular weight distribution and molecular struc-	
properties in polyurethans, Polyurethan foams. SCANLON, J., AND W. F. WATSON. Statistical treatment of rubber structure		weight distribution and molecular struc-	1201
Vulcanization, chemical kinetics and	335	ture	2201
properties HE. Toussaint, and Yoan-Kun Chai. Vulcanisation, effect of sulfena- mides	990	see Dunn, J. R.	
CHAI. Vulcanization, effect of sulfena-		WHIDNER, C. L., AND G. CROCKER. Elasto-	1323
mides. E. ECHTE, AND S. SONNENBERG.	846	meric adhesion and adhesives. Wood, L. A., J. Maddesives, And R. A. Paulaon. Copolymer composition by combustion analysis.	1020
Vulcanisation with S in absence of ac-		PAULSON. Copolymer composition by	
celerators	1051	combustion analysis	1132
, AND W. REDETSKY. Vulcanisation,	834	YANOVSKII, D. M., see Berlin, A. A.	
- G. MAU, AND G. KEMPE, Vulcaniza-	001		
effect of bases	326	ZINCHENEO, N. P., see Bulko, G. N. ZHEREBKOV, S. K., see Deryagin, B. V.	

SUBJECT INDEX

	Page	Pi	NER.
Abrasion, laboratory	857	Damping versus prestress. Dawson (RABRM) system of classifying information on rubber 4th issue, p. xi	282
Abrasion, laboratory		Dawson (RABRM) system of classifying in-	
Accelerator residues, effect on aging	490	formation on rubber4th issue, p. xi	
See vulcanisation		Deformation loss and friction	129
Accelerator residues, effect on aging See vulcanisation Adhesion, polymer to polymer, electrical and		Degradation	91
Adhesion, polymer to polymer, electrical and diffusion processes in	240		909
Diffusion theory of	748	Dielectric loss and crystallization	741
Of rubber to metal by Lefkonst	757	N.N-Diethyl-2-benzothiasolylsulfenamide as	
Nature of	1180	accelerator	361
Review	1323	Diffusion theory of adhesion	748
Adiabatic stretching and crystallisability	988	accelerator Diffusion theory of adhesion Diphenylmethane (as model for) reaction with	
Aging			217
Of SBR	510	Di-o-tolylguanidine (DOTG)-eatechol borate	
See antioxidants, stabilizers, accelerator,		in rubber, analysis for	237
antirad, antiozonant, etc.		Dynamic modulus at small amplitudes	272
Anionic polymerisation, see polymerisation		Dynamic properties and friction	105
Annual report of the progress of rubber tech- nology, Vol. XXIII, 1959. Book review 5th issue, p. xxii		TH1.11 - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
nology, Vol. XXIII, 1959. Book review		Elasticity, theory of elastomeric Elastomer, see Bibliography of Rubber	763
		Elastomer, see Bibliography of Rubber	
Antioxidant, sorption from solution	528	Literature	
See stabilizers, accelerator residues, etc.		Electric charges formed during deformation	-
Antiosonants			970
Screening test	899	See addesion	
Antirad action. ABTM standards on plastics with related information. Book review. 4th issue, viii ASTM standards on rubber products with related information. Book review	483	Electron paramagnetic resonance (EPR)	0.40
ASTM standards on plastics with related in-		During milling	942
formation. Book review. 4th issue, viii			469
ASTM standards on rubber products with re-		Of carbon black	993
lated information. Book review			005
4th issue, viii		Electrons, unpaired in carbon black	993
	-	Elongation decrease	502
Bases as accelerators	834	Energy requirement for degradation	909
Bibliography of Rubber Literature. Book		Encyclopedie du eaoutehouep. xxiv	
review		Engineering design with rubber, Book. A. R. Payne and J. R. Scottp. xxi	
Big molecules. Book review 2nd issue, p. xii Block polymers formed mechanochemically		Payne and J. R. Scottp. xxi	
Block polymers formed mechanochemically	964	Ethylaluminum dichloride, isomerisation of	
See meduanochemical		natural rubber	985
Bond strength		Patiena polistanes and electric shares	970
Determination	1, 42		315
Theory of	306		326
Physical chemical factors in	545		020
Theory of Physical chemical factors in And mechanochemical effects	953	Foams	909
*** *************************	556	Polyurethan, microporous1193, 1	275
Bonding of rubber to metal by Lelkonat	757		210
Bound rubber, see gel, mechanochemical		See scission	78
Bound rubber, see gel, mechanochemical BRPRA publications, list of2nd issue, xiv, 4th issue, p. xvii		Free radical cracking	18
2nd iceue, xiv, 4th issue, p. xvii		Freezing point depression of vulcanizates (gels).	245
Butadiene, see Polymerization		Printing between angled and anharized aliders	230
Butadiene rubber vulcanisation	199	Friction between conical and spherical sliders	119
Butyl rubber, vulcanisation with phenol for-	1000		
maldehyde derivatives	299	Priction of hard suders on rubber	129
		Friction, rubber, dynamic properties, etc	100,
Carbon black		Trans of whites and electronic properties 1	166
Modification with ionizing radiation	796	Powiers and enastonier properties 1	218
EPR spectrum	993	Review 1	210
Unpaired electrons in	993	Gel(s), see vulcanisates	
Cementa		Formation in mastication	940
Rubber bensene	798	Formation and vulcanizate strength	940
Rubber bensene. Classification of high polymers: a review. Book review. 4th issue, p. x Classification of information on rubber, The Dawon system. 4th issue, p. xi Colloid stability of SBR latex. Combustica analysis for secondaria constructions.			245
Book review4th issue, p. x		See Rubber-benzene system thermody-	
Classification of information on rubber, The		namics	
Dawson system 4th issue, p. xi			
Colloid stability of SBH latex	535	Hardness test	
Companion analysis for copolymer compan-			876
tion	1132	flydrogen chloride, isomerization of natural	
Complex formation, see Kropacher, V. A. Copolymer composition by combustion		rubber	985
Copolymer composition by combustion	****	Hysteresis, loss and friction 129, 142, 151,	158
analyms	1132	In tire wear and abrasion	857
Cord to rubber bond strength, see Bond			
strength	-		639
Cracking by free radicals	78	Infrared, use of in vulcanization208, Ionizing radiation	975
Cromlinking		Ionizing radiation	-
Radiation damage	483	Modification of earbon black	790
Radiation	1072		1375
And scission	1072	Isomerization, cis, trans of polyisoprene. 1, 445,	1950
And friction	1166	Isoprene, see polymerization	
		Isoprene unit determination in polyisoprene	-
Crosslinking, chemical determination, see RUBBER CHEM. & TECHNOL. Vol. 30,	-		982
RUBBER CHEM. & TECHNOL, Vol. 30,		Latex	
p. 11 (1957)			535
RUBBER CHEM. & TECHNOL. Vol. 30, p. 11 (1957) Crystallization Of cis-polybutadiene	-	Polymerization of monomers in	825
Of cis-polybutadiene	, 732	See book review, Practical latex	
Of polymers and dielectric loss	741	4th issue, p. ix	

Leikonat adhesive		Page
Leikonat adhesive	Polyisoprene Isomerisation, cis-trans	445
Macroradicals in milling, see Mechanochemical	Degradation	975
Mastication 80 01 08	See polymerization Crystallizibility of SKI on stretching	988
Power and thrust force of mills	Polymerization Of monomers in latex. Polymerization of butadiene or isoprene with	825
ence	Polymerization of butadiene or isoprene with lithium or lithium compounds	595.
Mechanical shear degradation in solution 909	With Ziegler catalysts 689, 696.	975
Mechanical properties and surface friction 105 Mechanism, see vulcanization, degradation, etc.	With organomagnesium compounds (Lipus-	655 971
Mechanochemical reactions 80, 900 Blending of polymers 457 Modification of rubber 923, 959	nard reagents) Polymer, new journal. Announcement	
Reactions leading to reinforcement 929 Gel formation in milling 940	Polymers and resins. Chemistry and chemical engineering. Book review. 2nd issue, p. xii Polymers abanesterisation behaviour	
Macroradicals in	Polymer characterization, techniques of. Book review. 2nd issue, p. xiii	
Effect of initiators and inhibitors 946	Polymer characterization, techniques of Book review 2nd issue, p. xiii Polymers, linear and stereoregular addition. "Polymers, linear and stereoregular addition. "Polymer Reviews," Vol. 2 Book review 2nd issue, p. xii Book review of "Big Molecules". 2nd issue, p. xiv Polymer structure and properties	
In the glassy state	Book review of "Big Molecules"	
Mercaptobensothiasole (MBT), see vul- canisation Derivatives as accelerators357, 361, 373, 384	Polymer structure and properties In polymerthanes	
Metal oxides in vulcanization	In polyurethanes See Tobolsky, A. V. Polyudides with polar links. Polyurethan elastomers. Structure and properties review	416
Methylenic hydrogen, reaction with TMTD, see TMTD vulcanization	Polyurethan elastomers	1092 1259
See diphenylmethane, reaction with S	Foams, review	1293
Microhardness. 876 Microporous rubber footwear parts. 1193 Milling Radicals formed. 462	Foams, review Polyvinyl chloride stability, influence of polymers having conjugated unsaturation. Practical latex work H. J. Stern. Book review 4th issue, p. ix Pressure, effect in molding microporous rubber	1188
Power and thrust force of rolls. 868 See mastication, mechanochemical, etc.	Pressure, effect in molding microporous rubber Pressure, high, on vulcanization	1193
Molecular weight distribution Of polyisoprene	Prestress effect on damping	282
AND CONTRACTOR OF THE ABOVE THE PROPERTY OF TH	Radiation, see ionizing Radiation	
And thiol acids	Chain seission and antirad action	476 483 1072
See polyisoprene Isomerization	Review of ionizing radiation. Radical and polar mechanisms of vulcaniza-	1375
Compat the market marries 708	See TETD.	342 1062
See low temperature properties Neues Gummi Addressbuch, 1959-1960. Book review		199 946
Neutron field vulcanization 1083	In vulcanisation In milling 462, 940, 942, In polymerisation and degradation See mechanochemical, TETD	469
Nitrile butadiene rubber (NBR), Redox sys- tems for plasticizing	cising of acrylonitrile rabber	790
Organometallics See polymerization	Of aging by decrease in elongation	502
See polymerization See Boldyreva, I. I. Oxidation, see stress relaxation	Of aging by decrease in elongation	929
Oxidative plasticizing of NBR 790		1114
Oxygen degradation of polyisoprene51, 60 Oxone reaction of rubber	Rolling resistance	1068 302
Cut growth, rate	Rubber benzene system thermodynamics See gels, freezing of	98 798
Polar, see radical and polar, vulcanization,	The rubber manufacturing industry, A. T. Mathyoo. Book review. 4th issue, p. ix	
polymerisation, etc. Phenol formaldehyde derivatives, vulcanization with	Rubber solutions Strength and elastomeric properties Shear degradation in	921 909
Photooxidation of peroxide cured stocks 433 Physical properties and chemical kinetics in	Rubber Science Fall of Fame Citation of H. Ridley5th issue, p. xxvii	
vulcanisation	Rubber technology. Book review	
Polybutadiene 4th issue, p. viii	Seission, radiation damage See radiation, reversion, degradation, etc.	476
Crystallisation	Shear dependence of degradation	91
See polymerization Infrared analysis	Skidding resistance	151

	Page		Page
Solubility of polymers in each other. V. Mechanochemical blending	457	Thiol seids and NR. Thiuram sulfides, see Vulcanization, TMTD,	1
Sorption of antioxidant from solution Stereoregular, see polymerization	528	TETD, etc.	
Strength		Solid, rolling resistance of	302
See Bond strength		Wear	857
See Stress-strain		Bond strength in	556
Strength and elastomeric properties of rubber		Titanium tetrachloride, see Polymerization	
solutions	921	TMTD vulcanisation	326,
Stress-optical behavior, temperature depend-	763	335, 394, 398, 401, 412, 1068	
ence. Stress relaxation.	72	Trialkylaluminum, see Polymerisation	
During oxidation of NR	423	Vulcacization	
Of peroxide cured stocks	433	Chemical kinetics and properties	335
During photoexidation		Mechanism	342
Stress strain isotherm	254	MBT derivatives in	
Stress waves and fracture surfaces	275	Binary systems of accelerators	373
Structure and properties of polymers. A. V. Tobolsky. Book		Accelerator system and bond strength	384
Structure, statistical treatment	1201	Accelerator residues, agirg and	490
Styrene-butadiene rubber (SBR)	****	Bond strength and	556 834
Bond strength between vulcanisates	384	In presence of sulfenamides	846
Aging490, 528, 535	, 510	With S-35, state of cure	181
SBR vulcanization with thermal neutrons.		Free radicals in	199
Sulfenamides as accelerators	846	Of butadiene rubber	199
Reaction with rubber	208	Of butyl with phenol formaldehyde deriva-	
Reaction with diphenylmethane and sine		tives	239
salt of MBT, or MBT and sine butyrate		Use of infrared characters anastes in	1001
	, 217	Use of infrared absorption spectra in	217
Lability of sulfur atoms	1010	Effect of fillers in	326
Migration of 8-35 in rubber	1015	See TMTD vulcanization	
Polar S bonds		Effect of oxygen	
See vulcanization	****	Of rubber solutions	1005
Sulfur-35, vulcanization with	181	Lability of S in	
Superior processing (SP) rubber	810	Migration of 8-35	1015
Swelling	1000		1015
Of polyurethans	1002	At high pressure	
Tear	315	Diffusion	
Resistance to. Review	1438	With S in absence of accelerators	1051
Temperature dependence of mechanical and		See reversion, EPR, crosslinking, gels, etc.	1063
stress-optical behavior of elastomers	763	Vulcanizates (gels), freezing point of	245
Temperature		The state of the s	
Low, testing of rheology properties Improvement of	1114	X-Ray diffraction	
Improvement of		For sinc oxide determination	890
See TMTD		See crystallization	
Tetramethylthiuram monosulfide (TMTM)			
reaction with rubber	398	Ziegler catalytic polymerization of dienes, see	
Tear registance	315	polymerisation	
Tetraethylthiuram disulfide (TETD), radical		Zine oxide In TMTD vulcanization	410
and ionic reactions		Determination in vulcanizates by use of	413
Thermal plasticizing		X-ray diffraction	890

